

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A holographic recording method for multiplexing at least two or more files, each of the files comprising one or a plurality of page data in an optical recording medium, as holograms, the method comprising:

determining whether or not page data to be recorded constitute a same file;
recording page data of separate files respectively in different positions in the optical recording medium, with the page data of separate files not multiplexed; and
performing recording control with respect to page data of the same file such that the page data of the same file can be multiplexed.

2. (Currently Amended) A holographic recording method according to claim 1, wherein the page data is ~~multiple-recorded~~multiplexed for each predetermined unit, and the page data in the predetermined unit is page data that constitutes one file.

3. (Original) A holographic recording method according to claim 2, wherein information is recorded in the optical recording medium, the information making the file correspond to a recording area, in which the file is recorded.

4. (Original) A holographic recording method according to claim 2, wherein the page data that represents head information is added to a front page of the file.

5. (Currently Amended) A holographic recording method according to claim 1, wherein if the page data included in a file is divided to a plurality of blocks and the plurality of blocks are recorded, the page data that constitutes one block of the plurality of blocks is ~~multiple-recorded~~multiplexed.

6. (Original) A holographic recording method according to claim 5, wherein information is recorded in the optical recording medium, the information making the file correspond to a recording area, in which the file is recorded.

7. (Original) A holographic recording method according to claim 5, wherein page data that represents head information is added to a front page of the file.

8. (Original) A holographic recording method according to claim 5, wherein page data that represents information on a recording area in which the block to be read next is recorded, is added to an end of each block if the file is divided to a plurality of blocks and the plurality of blocks are recorded.

9. (Original) A holographic recording method according to claim 5, wherein if the file is divided to a plurality of blocks and the plurality of blocks are recorded, the file is reallocated so that the file is re-divided to a smaller number of blocks.

10. (Previously Presented) A holographic recording method according to claim 1, wherein a polarization direction of a signal light beam is set parallel to a polarization direction of a reference light beam.

11. (Previously Presented) A holographic recording method according to claim 1, wherein a polarization direction of a signal light beam is set different from a polarization direction of a reference light beam.

12. (Previously Presented) A holographic recording method according to claim 1, wherein a polarization direction of a signal light beam is set orthogonal to a polarization direction of a reference light beam.

13. (Original) A holographic recording method according to claim 1, wherein the optical recording medium includes a photorefractive material.

14. (Original) A holographic recording method according to claim 1, wherein the optical recording medium includes a polarization sensitive material.

15. (Original) A holographic recording method according to claim 1, wherein the optical recording medium includes at least one type of polyester polymer.

16. (Original) A holographic recording method according to claim 15, wherein the at least one type of polymer includes an azobenzene structure in a side chain.

17-72. (Canceled)

73. (Previously Presented) A holographic recording apparatus for multiplexing at least two or more files, each of the files including one or a plurality of page data in an optical recording medium, as holograms, the apparatus comprising:

a light source for emitting a coherent light beam;

a stage that rotates or shifts an optical recording medium;

a light dividing and optical path changing unit that divides the coherent light beam to a light beam for a reference light beam and a light beam for a signal light beam, and that changes an optical path so that the reference light beam and the signal light beam are simultaneously irradiated onto the optical recording medium;

a spatial light modulator that is arranged in the optical path of the light beam for the signal light beam, that modulates the light beam for the signal light beam in accordance with a supplied recording signal for each page, and that generates the signal light beam for recording said each page of a hologram; and

a signal supply unit that determines whether or not page data to be recorded constitutes a same file, that supplies the recording signal for said each page to the spatial light modulator so that page data of separate files are recorded in respectively different positions in the optical recording medium, with the page data of separate files not multiplexed, and that performs recording control with respect to page data of the same file such that the page data of the same file can be multiplexed.

74. (Previously Presented) A holographic recording apparatus according to claim 73, further comprising:

an analyzer that transmits a component, in a predetermined polarization direction, of a diffracted light beam from said each page of the hologram recorded in the optical recording medium; and

a detector that detects intensities of transmitted light beams that are transmitted through the analyzer.

75. (Currently Amended) A holographic recording method according to claim 1, wherein the ~~multiplexing~~multiple-recording uses any one of shift multiplexing, phase multiplexing, angular multiplexing, and wavelength multiplexing.

76. (Currently Amended) A holographic recording apparatus for multiplexing at least two or more files, each of the files comprising one or a plurality of page data in an optical recording medium, as at least two holograms,

wherein it is determined whether or not page data to be recorded constitute a same file,

page data of separate files are not multiplexed, and are recorded respectively in different positions in the optical recording medium, and

recording control is performed with respect to page data of the same file such that the page data can be multiplexed.

77. (Currently Amended) A holographic recording apparatus according to claim 76, wherein the ~~multiplexing~~multiple-recording uses any one of shift multiplexing, phase multiplexing, angular multiplexing, and wavelength multiplexing.

78. (Previously Presented) A holographic recording apparatus according to claim 76, further comprising:

an analyzer that transmits a component, in a predetermined polarization direction, of a diffracted light beam from each of the pages of the holograms recorded in the optical recording medium; and

a detector that detects intensities of transmitted light beams that are transmitted through the analyzer.